



Configuration
Management



Federal Student Aid

Configuration Management Awareness Presentation



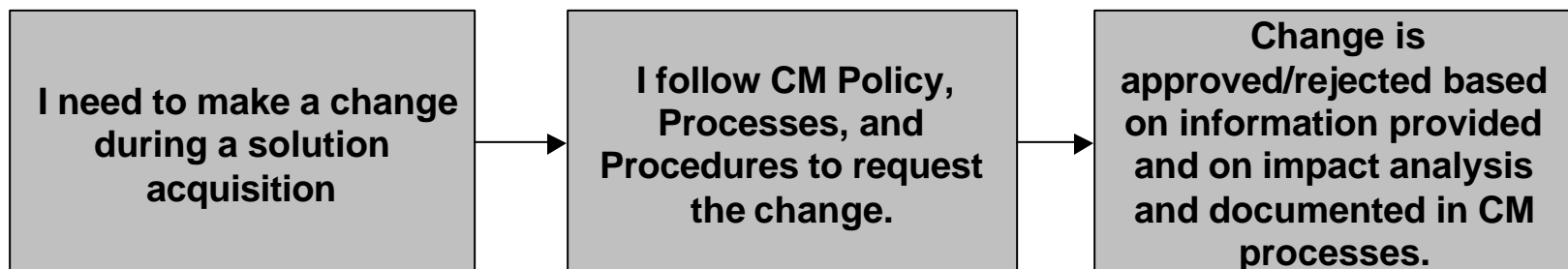
- **Configuration Management Definition**
- **Configuration Management Benefits**
- **Configuration Management Levels**
 - Enterprise Change Management
 - Project Configuration Management
- **Configuration Management Process in the SLC**
- **Project Level Configuration Management Tasks**
- **Project Level Configuration Management Tools**
- **Deliverables and Summary**





Configuration Management (CM) is Change Control for Solution Acquisitions.

- CM is the process of identifying, organizing, and managing critical work products as they evolve through the Solution Life Cycle (SLC); this includes both software and non-software components.



- CM takes place at two different levels: Enterprise (FSA-wide) level and Project Level.



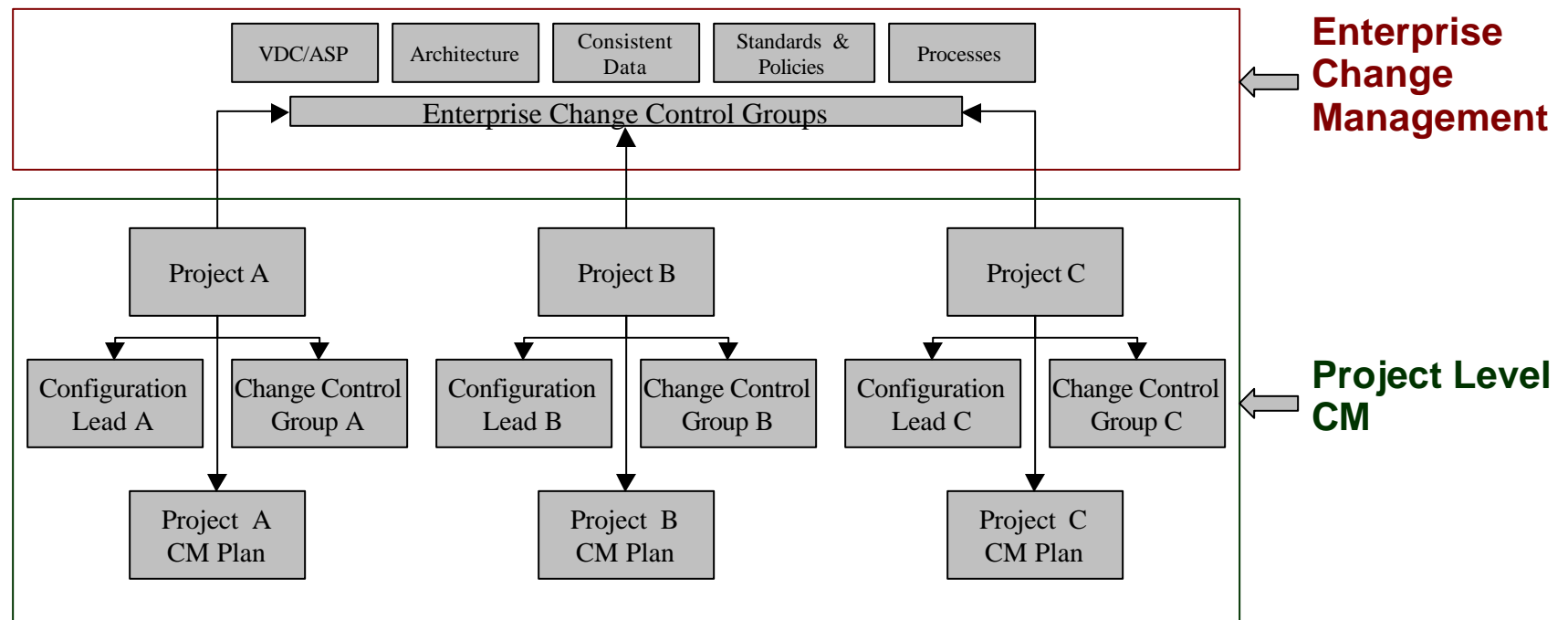
CM outlines the appropriate processes and procedures needed to help consistently track and monitor changes throughout the Solution Life Cycle (SLC).

CM saves FSA and Solution Acquisition Projects time, money, and effort, while lowering risk of rework.

- Repeatable processes and procedures do not have to be reinvented
- Best Practices are established and shared among projects, thereby increasing efficiency and effectiveness.
- Time and money are better utilized during projects by not “reinventing the wheel” and referring to the Best Practices already developed.
- The amount of errors and rework is reduced by following a pre-approved process.
- CM assists FSA employees in maintaining organized and accurate data for their projects.



The Enterprise Change Control Groups (CCGs) are used to manage changes that may impact multiple FSA projects or systems.



There is significant industry evidence to show that proper CM performance helps prevent costly redesign efforts further in the Solution Life Cycle.

Overview of Enterprise Change Management (ECM) Tool

Configuration Management



Change Requests to the Data Centers are managed via the ECM Tool

A Change Request (CR) is identified...



FSA Application teams
(such as SAIG/ FP Portal)
Submit a Production
Change Request
Via the ECM Tool



Universal
CR #s

Enterprise Stakeholders
Have Visibility and Input
to the CR Process

Change Requests are reviewed by affected areas and managed to closure via the ECM Tool.

CR Proposed
(Affected Areas
Review)

CR Approved
(Moved to
CCRB Review)

CR Scheduled
for
Implementation

Resolved CR
Reviewed
(by Submitter)

CR
Closed



Status updates are automatically sent to affected areas via E-Mail
The ECM Tool becomes the Enterprise "Data of Record" for all change activity

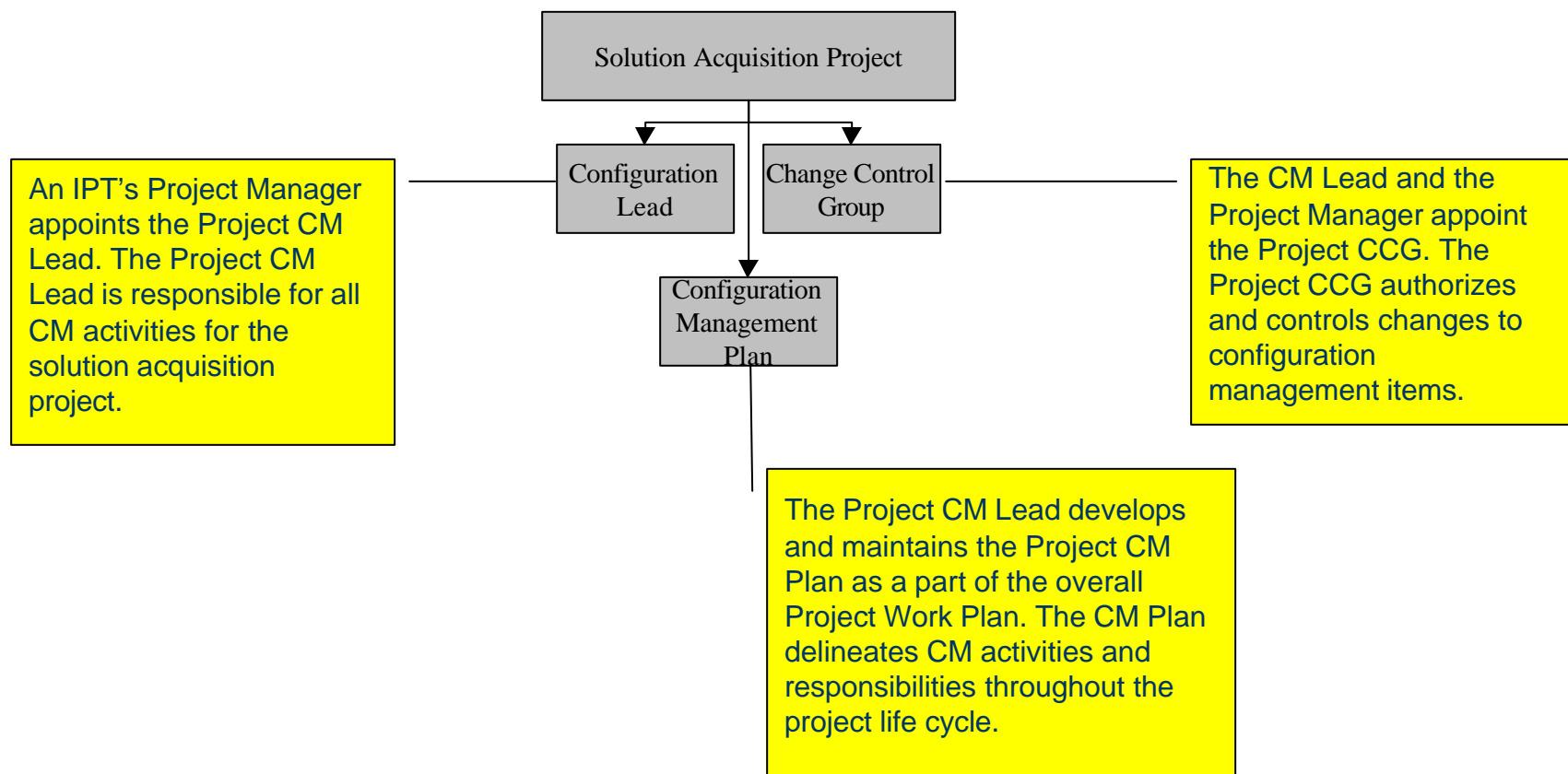
**Data Centers
(VDC)**

CR Progress
Updates are logged





As documented in the CM Process Guide, each Solution Acquisition Project has a CM Plan, a Project CCG, and CM Lead.

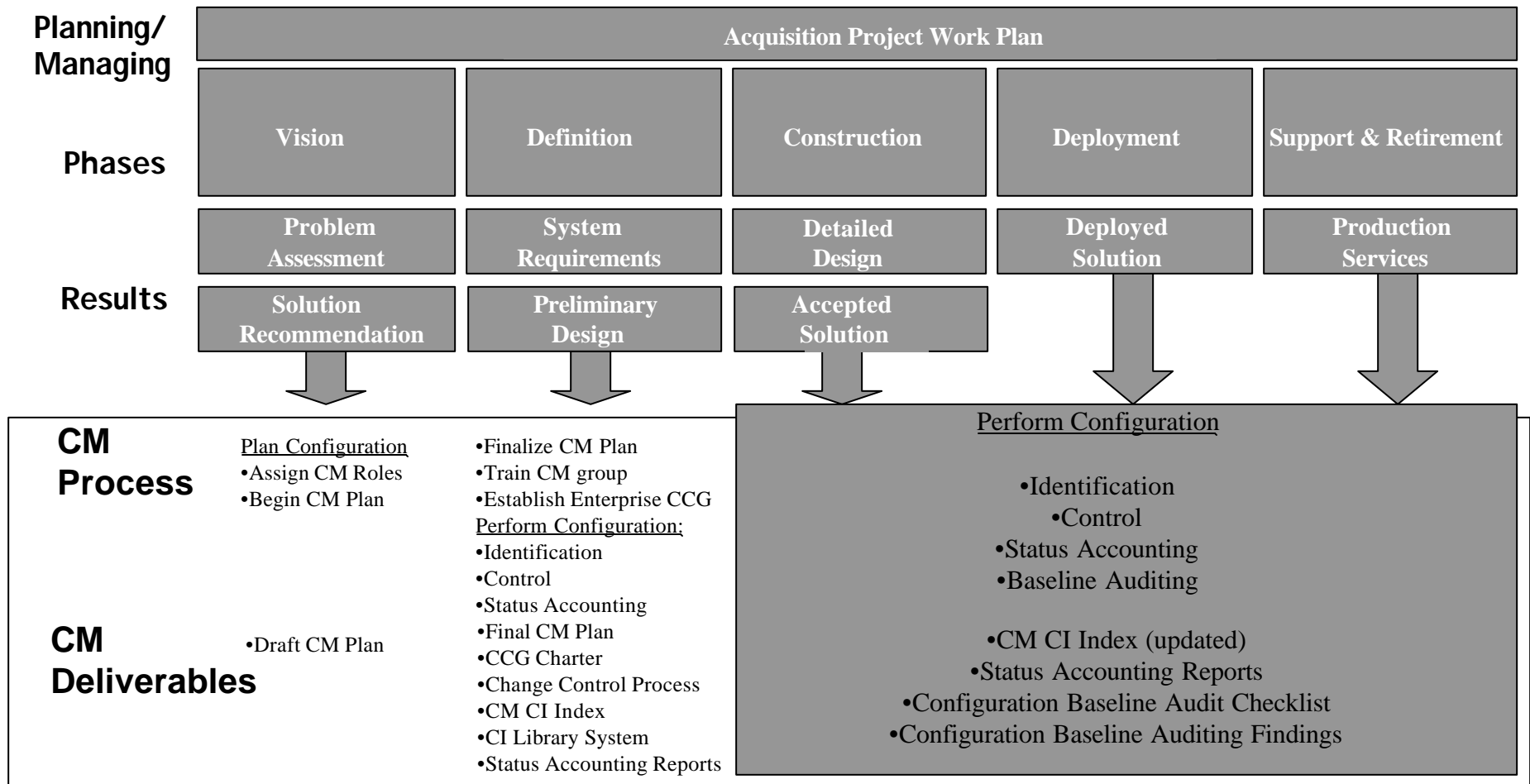


CM Process in the SLC

Configuration Management



The Project CM Lead is assigned at the beginning of the SLC to plan and perform CM activities throughout the SLC.

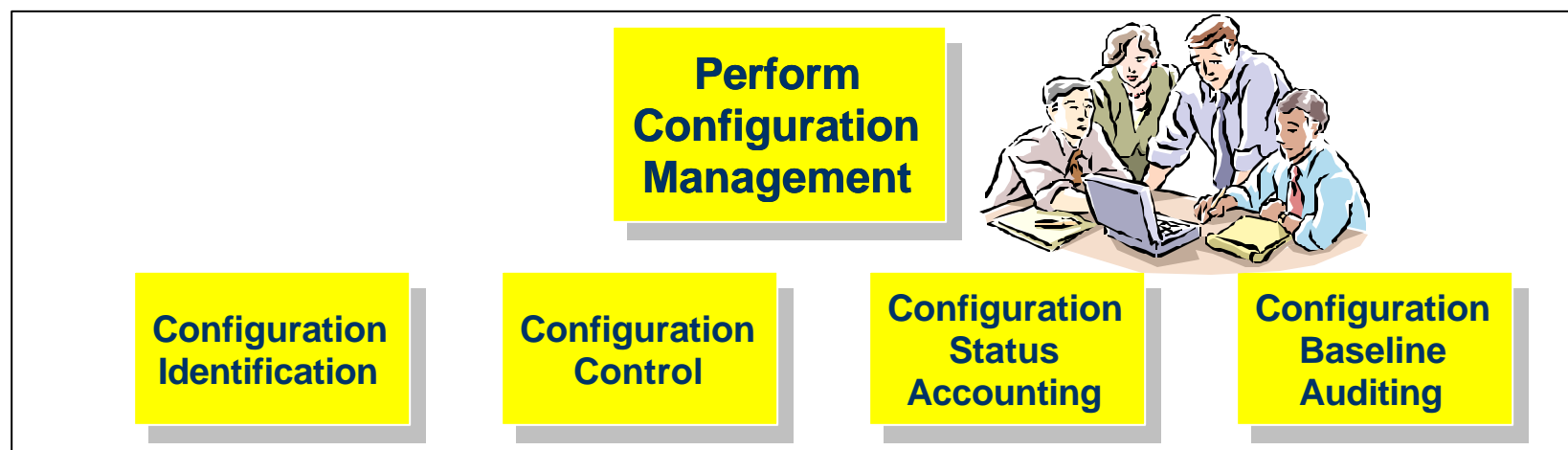
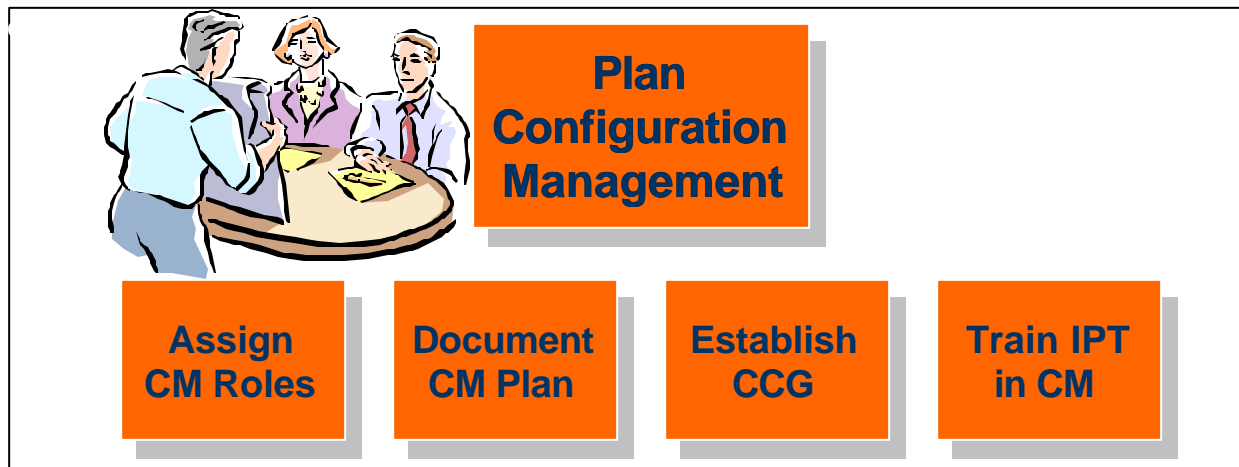


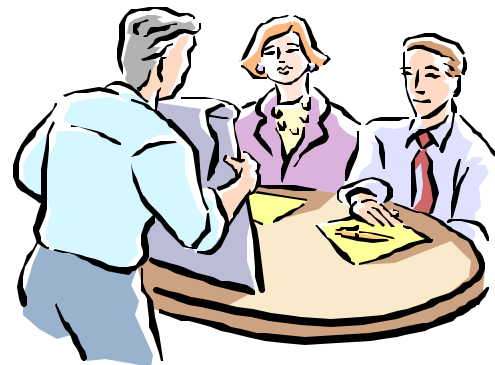
Project Level CM Tasks

Configuration Management



The CM Process Guide is the main support tool for the CM Process. The CM Process Guide Defines the following two phases: Planning and Performing.





Plan Configuration Management

Assign CM Roles

An IPT's Project Manager appoints the Project CM Lead.

Document CM Plan

The Project CM Lead develops and maintains the Project CM Plan.

Establish CCG

The Project CM Lead appoints the Project CCG.

Train IPT in CM

The Project CM Lead is responsible for ensuring the Project IPT is trained in how to use perform CM for that project.

Perform CM

Configuration Management



Perform Configuration Management

Configuration Identification

Identify what work product items need to be maintained under CM and establish a starting point for each stage of development.

Configuration Control

All changes to configuration items are classified, documented, and stored.

Configuration Status Accounting

Administratively track and report on all of the configuration items.

Configuration Baseline Auditing

Ensure CM policies and procedures are followed.



The SLC provides needed processes, procedures, job aids, templates, and samples to support best practices. Tools are provided to enable CM activity at both the project and the enterprise level.

CM Tools

- CM Policy – establishes roles and responsibilities
- **CM Process Guide – provides the steps required to implement CM across FSA**
- CM Plan Template – provides form for project CM plan
- CM Item Identification Index – provides form for what items need to go into CM
- CM Baseline Audit Checklist – provides form for conducting baseline audit





CM enables teams to track and monitor changes in a consistent manner throughout the project life cycle. This allows projects to save time and money on rework throughout the SLC.

	CM Activity	Deliverables
	Plan Configuration Management	
Plan CM	Assign Configuration Management Roles	Project CM Lead Assigned
	Document Configuration Management Plan	Configuration Management Plan
	Establish Change Control Group	Change Control Group Charter
	Train Configuration Management	CM Project Resources are trained
	Perform Configuration Management	
Perform CM	Configuration Identification and Baselining	CM Plan Configuration Item Index Configuration Item Library System
	Configuration Control	Change Control Process
	Configuration Status Accounting	Appropriate Status Accounting Reports
	Configuration Auditing	Configuration Audit Checklist Configuration Audit Findings